Monthly Expense Tracker Application

Project Details

Project: Individual

Timeline: 2 days

Presentation: Monday 29th

Overview: The Monthly Expense Tracker Application is a web-based tool. Its purpose is to help users manage their personal finances by tracking expenses across different categories.

The application should have 4 key functionalities. **Set a monthly budget, add categories, add expenses, and display a summary of the expenses.**

The code should be uploaded to your personal git repository.

User Experience Requirements

Create a simple user interface using HTML and CSS.
Try to keep the design responsive, it should look good on desktop and mobile devices.

The following is an example, but you can be as creative as you want on how the information is presented keeping in mind the usability and responsiveness of it.

Functional Requirements:

1. Budget Management:
Users should be able to add one monthly budget and specify the **amount** and **currency**, budget can be **updated.**

2. Category Management:
Users should be able to **create**, **edit**, and **delete** categories for their expenses (e.g., Food, Transportation, Entertainment).
Note: Take into consideration that if a category with expenses associated is going to be deleted an error should display and the category shouldn't be removed.

3. Expense Management:
Users should be able to add new expenses, specifying the **amount**, **date**, **currency**, and **category**.
Users should be able to view, edit, and delete existing expenses.

4. Expense Summary:
A summary view that displays the total expenses for each category.
Good to have but not required: A visual representation of the expenses (e.g., pie chart or bar chart) using a JavaScript library like Chart.js.

Technical Requirements:

1. HTML/CSS:

Use HTML for the structure of the application.
Use CSS for styling.

2. JavaScript:

Use JavaScript for the functionality.
Implement event listeners for handling user interactions.
Use JavaScript to manipulate the DOM and update the UI dynamically.

3. Persistence:

Use local storage to save the categories and expenses so that the data persists across page reloads.

4. Validation:

Ensure all forms have appropriate validation (e.g., no negative amounts or required fields).

Note: You can be creative and add as many additional features as you'd like, but first complete the required requirements. Here is a list of ideas you could implement.

Optional Enhancements:

- Implement sorting and filtering options for the expenses.
- Allow users to set a budget limit and display a warning when the limit is exceeded.
- Currency Conversion: Integrate a currency conversion feature to handle expenses in different currencies.
- Export/Import Data: Allow users to export their data to a file and import it back.
- Dark Mode: Implement a dark mode toggle for the application.

Presentation Requirements:

1. Project Overview:

An overview of the features implemented.

2. Demo:

A live demonstration of the application, highlighting the key features.
Show how to add, edit, and delete expenses and categories.

3. Technical Explanation:

Explain the main components of the application.
Discuss any challenges faced and how they were overcome.

4. Future Improvements:
Suggestions for potential enhancements and new features.